Tech Update

Presented for K2 Enterprises by Randy Johnston

February 12, 2015

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What About Randy?

- Inducted Accounting Hall of Fame, Feb 2011
- 2004-2014 Accounting Today 100 Most Influential in Accounting for eleven years
- Top 25 Thought Leader 2011-2015
- 40+ years of technology experience
- Author of articles on Technology including a monthly column in CPAPractice Advisor
- Top rated speaker for over 30 years
- Published author of six books
- From Hutchinson, KS
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What About NMGI?

- **CRN top 100** technology company
- **MSPMentor top 100** company
- **NetCare** – National CPA support services
- **NetRescue and NetStore** – Backup Appliances and web-based backup
- **Boutique Technology and Business Continuity consulting** – CPA Firm Technology Assessments, Paperless, Accounting Software Selection (ERP, BI, HR, SaaS, CRM)
- **WebCare and NetHosting** – Custom Web site and Cloud services

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About K2 Enterprises

- Provides live and on-demand Continuing Professional Education (CPE) in 48 US states and in Canada
- Largest provider of technology-focused CPE for accountants and financial professionals in North America
- Services Offered
  - Live in-person presentations (conferences & seminars)
  - Webinars
  - On-site training
  - On demand self study materials
- www.k2e.com for more information

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K2 Enterprises Web Sites

- www.k2e.com - CPE Info
- www.CPAFirmTech.com – CPA Firm Info
- www.AccountingSoftwareWorld.com – Accounting Software Info
- www.TotallyPaperless.com – Paperless Info
- https://www.youtube.com/user/K2Enterprises - The K2 Enterprises YouTube channel with over 160 free technology training videos

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Learning Objectives

Upon completing this session, participants should be able to

- Identify leading technologies available to accounting and financial professionals;
- Differentiate between various technology choices and make recommendations based on relative strengths and weaknesses; and
- List major trends emerging in technology.

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What Happened?
Mergers, Acquisitions, And New Names

- IBM Small Server division to Lenovo
- Sony computer division to Japan Industrial Partners (JIP)
- Google Motorola to Lenovo, acquired Nest
- Cisco Linksys to Belkin
- Microsoft
  - SkyDrive became OneDrive
  - Office Web Apps became Microsoft Office Online
- Oculus Rift to Facebook (virtual reality)
- Amazon's $970 million purchase of Twitch
  - a live video-game-streaming site with more than 55 million users
- Hewlett – Packard Enterprise and HP Inc. (PC & Printers)
  - EMC rumored to having merger talks with HP as well as spinning off VMware
- Find more at
  - http://www.out-law.com/en/articles/2014/february/tech-acquisitions-in-2014/

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Birthdays And Anniversaries

- Apple iPad - 4 years old – April 3, 2010
- Apple iPhone - 7 years old – June 29, 2007
- Twitter - 8 years old – March 21, 2006
- Facebook - 11 years old – February 4, 2004
- Google - 19 years old – Summer 1995
- QuickBooks - 22 years old – May 11, 1992
- Windows - 29 years old – November 20, 1985
- Intel 4004 - 43 years old – March 1971

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How Do You View And Desire To Use Technology For Business?

HOW ARE YOU USING TECHNOLOGY?

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How Are You Using Technology?

1. Put your business in the Cloud. Popular Cloud storage services like Dropbox, Microsoft OneDrive or Google Drive store your documents and data online (rather than on your computer's hard drive), keeping information secure and letting you access files anywhere, from any computer. Use the Cloud to create different folders for different projects or team members; collaborate with employees, contractors, partners, or clients; and share files or images that are too big to email.

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How Are You Using Technology?

2. Market with social media. Does your business depend on local customers? Use social media tools to drive traffic to your door. Get listed on Yelp!, use a social check-in tool like Foursquare, and list your business on Google Places so people can easily find you and get directions to your location. Do you provide a service like plumbing or landscaping? Get listed on Angie's List. Always encourage customers to leave reviews after visiting your store, using your services or finishing a meal in your restaurant. To keep all your listings up to date, use a service like Locu that lets you manage all your online business information in one place.

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How Are You Using Technology?

3. Reach out with email. According to Convince and Convert, last year, 44 percent of email users made at least one purchase based on a promotional email. Once customers opt-in to receive your emails, send a monthly newsletter, alerts about sales or new products, or special offers. Email success is all about frequency and follow-up. Contact your local SBDC to get help setting up an email marketing account and determining the best way to reach out to your customer base.

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How Are You Using Technology?

4. Sell online. Expand your customer base by selling your products online, either through an ecommerce website of your own, or through larger online marketplaces such as the Amazon Marketplace, eBay or Etsy. Do you own a restaurant? Use an online service such as GrubHub, Seamless or iMenu360 that lets customers place orders online for pickup or delivery.

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How Are You Using Technology?

5. Enhance customer service. Save customers time and hassle by answering their most frequently asked questions on your business website and voicemail. This can include maps or directions to your business; hours of operation; information about shipping and returns; menu items and specials; or whatever customers ask you most.

6. Connect with prospects and partners. For a smart alternative to time-consuming and costly business trips, use solutions like Skype, GoToMeeting or WebEx to hold voice conference calls or videoconferences with customers and clients.

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How Are You Using Technology?

7. Get organized with project management software. If your small company outsources to contractors, tracking who's doing what and when can be a major headache. Simplify things with project management tools like BaseCamp, Zoho or Asana, which let you create and assign tasks, collaborate on projects and track everyone's progress.

8. Simplify scheduling. Does your business require setting appointments with customers? Eliminate phone tag by using scheduling tools like FullSlate, Genbook or BookFresh, which enable clients to schedule their own appointments online at their convenience.

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How Are You Using Technology?

9. Understand your customers. Got a website? Great! Now sign up for Google Analytics (it's free) and get reports that show where your website visitors are coming from—including what sites drive them to yours, what cities they live in, how long they spend on your site, what pages they look at and more.

10. Get paid instantly, anywhere. Do you serve customers at their homes or offices, or sell products on the go at farmers' markets or events? Mobile payment tools such as Square, Intuit GoPayment and PayPal Here, which work with your smartphone or tablet computer, make life easier for both you and your customers by letting you accept noncash payments on the spot.

Discussion from Pepperdine University – bschool.perpperdine.edu

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What's Your Technology Goal?

- Gain competitive edge – technology advantaged companies are more profitable
- Solve specific business issues
- Use technology to leverage your resources
  - Work smarter
  - Increase productivity
- Just want to be technology "cool"
- Use existing technology to the point of obsolescence trying to maximize ROI
  - There is a cost of using technology too long!!!
  - Must bear hidden costs of reduced staff productivity and competitive disadvantages of older technology

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Start By Making A Project List

- Strategic initiatives
- Tactical issues to resolve
- Broken or challenging processes
- What are Peers/Competitors Doing?

And then work to implement the projects

- Make sure to maintain accountability
  - Internally
  - With contractors

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Technology Fundamentals For 2014

- Reliable and Immediate Access (24x7x365)
- Secure (What is your definition?)
- Fast (How fast is fast enough for you?)
- Anytime, anywhere access on any device
- Properly maintained
- Data backed up in-house, in the Cloud or both

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How Much Does Technology Cost?

- Studies show anywhere from
  - $5,000 - $11,000 per individual
  - 4-7% of gross revenue
- Recurring vs. projects
  - Office, core applications, antivirus
  - Communication lines
  - Support, personnel, outsourced maintenance, hosting fees
  - Scheduled replacements (computers, printers, copiers, etc.)
  - New initiatives

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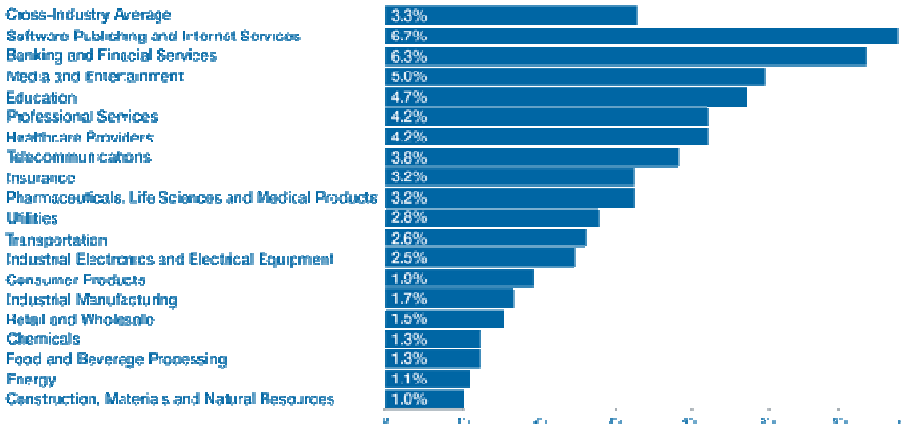
IT SPENDING AS A PERCENT OF REVENUE, BY INDUSTRY



Source: IT Key Metrics Data 2014, Gartner Benchmark Analytics

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Is The Cloud Less Costly?

- Hosted vs. Private Cloud
  - Typical hosting costs $40-$300/user/month
  - Private Cloud has base capital and maintenance costs, but minimal incremental costs for more users – breakpoint is approximately 15 users
- Consider costs for local support, hardware, firewall, software, etc.
  - Calculate cost per workstation (same whether in the public Cloud or using private Cloud)

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Is Current Technology Adequate?

- Strategic use (or avoidance) of the Cloud?
- Backup/Business Continuity/Disaster Recovery
- Security
  - Target, Home Depot, Goodwill credit card theft
  - Russian hackers amass 1.2 Billion passwords
  - Identity theft (www.ftc.gov/idtheft)
  - Multi-factor authentication
  - Chameleon WiFi access point virus

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Too Much Dependence?

- Internet reliability and availability
- Data center availability
- Biased technology research and reviews
- Trusting uninformed individuals
- Smartphones/tablet communication
- IT setup/maintenance (internal/external)

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http://baystreetgroup.com/wp-content/uploads/2014/02/Executive-Preview-Accounting-Firm-Operations-and-Technology-Survey-courtesy-CPA-Trendlines-vF3.pdf

NMGI/INSIGHT RESEARCH 2014 ACCOUNTING FIRM OPERATIONS AND TECHNOLOGY SURVEY

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Q18 What is the biggest technology challenge you face managing your practice in the next 1-3 years?

SURVEY RESULTS BY FIRM SIZE

Answer Options	Solo Practitioner	Small (1-10)	Mid (11-50)	Large (50+)	Total
Reducing costs	7.0%	4.2%	2.0%	8.1%	5.2%
Workflow and efficiency	24.4%	38.5%	30.0%	35.1%	32.0%
Application updates	7.0%	3.1%	0.0%	10.8%	4.8%
Training	2.3%	7.3%	10.0%	13.5%	7.1%
Integration challenges	3.5%	3.1%	14.0%	0.0%	4.8%
Locating and managing documents	7.0%	3.1%	2.0%	2.7%	4.1%
Which applications to move to the cloud	9.3%	10.4%	14.0%	8.1%	10.4%
Getting your clients onboard working with the firm in a more digital way	16.3%	14.6%	18.0%	8.1%	14.9%
Creating a paperless firm	12.8%	14.6%	8.0%	10.8%	12.3%
Other (please specify)	10.5%	1.0%	2.0%	2.7%	4.5%

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Q82 What are your two most-preferred ways to learn about technology for your firm? Please select two

OVERALL SURVEY RESULTS

Answer Options	Response Percent
Industry events I attend in person	29.5%
From my peers	36.7%
From consultants	13.5%
Industry magazine(s)	13.1%
From my state society	4.4%
Webinar (an educational presentation)	26.3%
A demonstration of the technology from the vendor	12.4%
Searching the Internet (e.g searching Google, Yahoo, or Bing)	18.7%

Answer Options	Response Percent
Accounting industry websites	15.9%
Vendor website	7.2%
Magazine advertising	2.0%
Email	8.4%
Telemarketing calls	0.4%
Mailers (e.g. post cards)	0.8%
Friends	6.8%
Other (please specify)	4.0%

Another good survey report: http://www.sleeter.com/blog/2014/04/smbs-want-accountant-2014-update/

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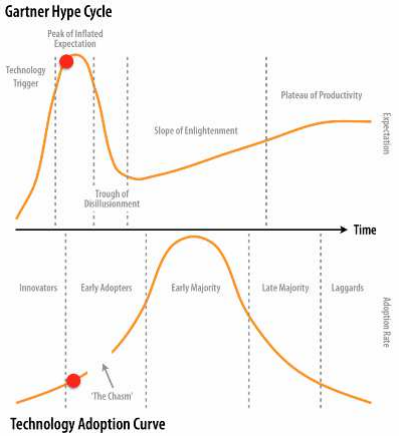

Directions And Areas Of Focus For Technology In 2014

TECHNOLOGY TRENDING

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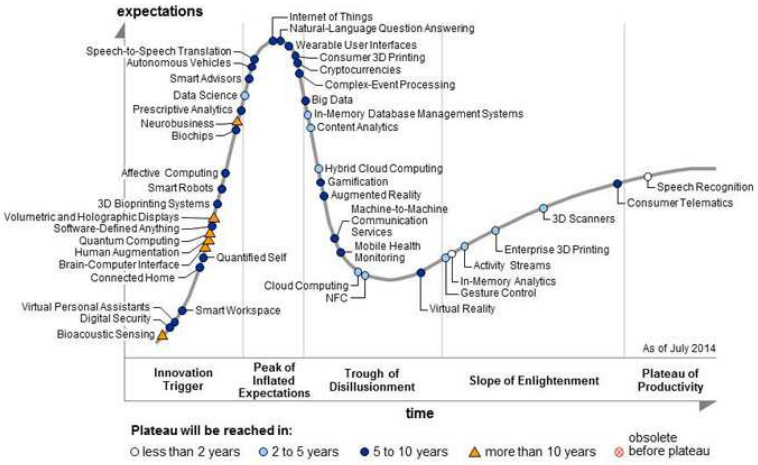
Hype Cycle for Emerging Technologies.



Gartner Group 2014-2

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Technology Health Concerns

- Hearing damage – www.listentoyourbuds.org
- Ocular migraines – blue light of computers
- Focus/fatal distraction
  - We discussed meeting distractions in prior years
  - 35,000 annual road fatalities, ¼ linked to phones
  - TextLimit disables touchscreen when moving
- Google Glass eye damage
- Apple iOS 8 Healthcare apps – Professional, http://www.ihealthlabs.com/

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Google Fiber

- In its current form, Google Fiber offers users a choice between a cable and Internet bundle ($120/month), unbundled gigabit internet service ($70/month) and a free Internet service at basic speed.

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Who And What Do We Believe?

- Internet is the primary source of news for Americans, 81% of U.S. consumers trust information and advice from blogs
  - Less than 1% of U.S. population watch any broadcast news
  - The News: A User's Manual by Alain De Botton
  - The Universal Sense: How Hearing Shapes the Mind by Seth S. Horowitz

The Economist 2/15/2014

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Or Possibly The Outernet

- Media Development Investment Fund (MDIF) is planning to turn the age of online computing on its head by giving free WiFi web access to every person on Earth
- Would like to deploy Cubesats in low earth orbit starting June 2015

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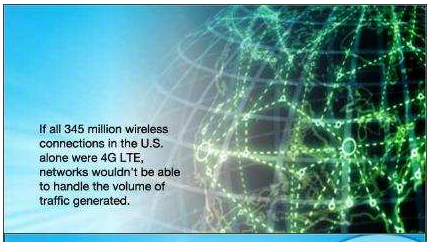
4G LTE Service Is Scarce (6%)

- Long Term Evolution (LTE)
- Global mobile data traffic grew 70% in 2012
- 4G was 19X non-4G
- Cisco forecasts mobile data >130 Exabytes annually by 2017
- Only 27M of 345M connections are 4G LTE
- 45% in 2017, 14% 2014


If all 345 million wireless connections in the U.S. alone were 4G LTE, networks wouldn't be able to handle the volume of traffic generated.

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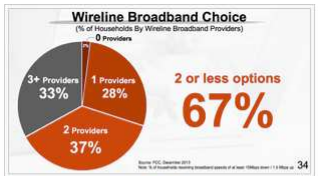
Internet Realities

Internet use in the United States 2000 to 2012 as a percentage of population

	Internet users[1]		Fixed broadband subscriptions[9]		Wireless broadband subscriptions[10]	
Year	% of population	World rank	% of population	World rank	% of population	OECD[11] rank
2012	81.0%	28 of 211	28.0%	24 of 193	89.8%	6 of 34
2011	77.9%	30 of 214	27.4%	25 of 194	77.1%	7 of 34
2010	74.0%	31 of 209	26.7%	27 of 205	61.1%	8 of 34
2009	71.0%	26 of 210	25.5%	26 of 201	46.9%	7 of 30
2008	74.0%	18 of 210	24.8%	23 of 197		
2007	75.0%	14 of 209	23.2%	20 of 190		
2006	68.9%	17 of 206	20.1%	22 of 174		
2005	68.0%	15 of 206	17.2%	18 of 174		
2004	64.8%	14 of 204	12.7%	18 of 151		
2003	61.7%	12 of 202	9.5%	17 of 131		
2002	58.8%	13 of 207	6.9%	13 of 109		
2001	49.1%	12 of 207	4.5%	9 of 81		
2000	43.1%	12 of 206	2.5%	5 of 45		



ISP choices available to Americans

Wireline broadband availability showing locations where the maximum advertised download speed is 3 Mbit/s or more (December 2012)[4]

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Broadband Internet Access Providers In The U.S.
(With More Than One Million Subscribers At The End Of 2011)

Company	Subscriptions[23]	Services[24]
Comcast	20,283,000	Cable Internet access at speeds up to 105 Mbit/s.[25]
AT&T	16,427,000	DSL access at speeds up to 6 Mbit/s and hybrid DSL/fiber access (U-Verse) at speeds up to 40 Mbit/s. Fiber access available at up to 1 Gbit/s
Time Warner	11,550,000	Cable Internet access at speeds up to 50 Mbit/s.[citation needed]
Verizon	8,995,000	DSL access at speeds of 0.5 to 15 Mbit/s and fiber access (FiOS) at speeds of 15 to 500 Mbit/s.[26]
CenturyLink	5,942,000	DSL and fiber access at speeds up to 40 Mbit/s.[citation needed]
Cox	4,540,280	Cable Internet access at speeds of 5 to 150 Mbit/s.[27]
Charter	4,535,000	Cable Internet access at speeds up to 60 Mbit/s.[citation needed]
Cablevision	2,774,000	Cable Internet access at speeds up to 101 Mbit/s.[citation needed]
Frontier	1,808,000	DSL access at speeds from 6 to 12 Mbit/s.[28] Fiber access with speeds up to 10 Gbit/s.[29]
Windstream	1,183,400	DSL access at speeds from 3 to 12 Mbit/s. Also offers fiber, Metro Ethernet & T1 speeds, up to 1 Gbit/s.[citation needed]

Source: http://en.wikipedia.org/wiki/Internet_in_the_United_States

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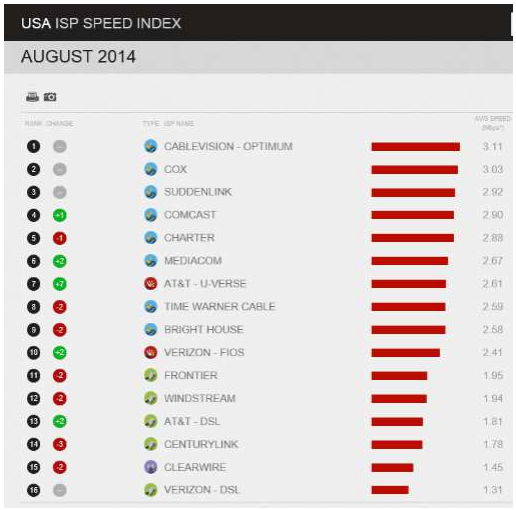
Average Internet Speed



Source: http://ispspeedindex.netflix.com/

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New Wearable Technology

- Apple Watch - $349
- Pebble - $150
- QUALCOMM Toq - $349
- Samsung Galaxy Gear (requires Note 3) - $299
- Sony SmartWatch 2 - $125
- Nike Fuelband 2 - $150
- Google Glass - $1,500

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Oculus Rift – Virtual Reality Goggles

- Still in development, acquired by Facebook for $2bn.
- Immersive including peripheral vision, low latency 360 degrees
- Originated in gaming, but now other VR interactions, including vacations, meetings.

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Microsoft Hololens

- Microsoft Hololens are not virtual reality, but augmented reality. They are a bit away from every day use, but they bring a lot of excitement as to the future. Today, game playing, tomorrow construction, engineering, warehouse management, design, medical applications and so much more

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Hardware Trending…

- NUC (Next Unit of Computing)
- Xeon E7 V2 for servers
- Economics of silicon ending
- Optical server connectors
- 4K
- DisplayPort/HDMI/VGA transition
- SD cards with near SSD speeds from Toshiba
  - Read 95MB/s, Write 60, $78-64GB, $38-32GB
- Drive failures
- 802.11ac/ad
- USB Type-C

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NUC (Next Unit Of Computing)

- Intel's Haswell NUC with i5-4250
- Intel's latest NUC; adds 2.5 inch drive bay
  - A useful small business or home server
- Gigabyte's giant killer with i7-4770R (soldered in with 128MB of L4 memory) that will outperform most desktop PCs available today

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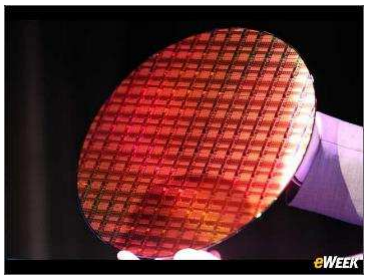
Intel's Xeon E7 v2 Brings Better Performance To Servers

- 20 different models that offer up to 15 cores, 1.5 terabytes per socket and speeds of up to 3.4GHz, offer twice the performance of the previous generation



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Intel Chips Announced And Coming

- Broadwell (Haswell successor, 5th Generation)
  - DDR4 RAM support
  - 14 nanometer, 30% more efficient=17 laptop hours
  - 8 Core i7 Extreme Edition, 2nd half 2014
  - Pro Graphics
  - Skylake, new chip design, wireless data, charging – 2H 2015
- Braswell (Atom line, June – August 2015)
  - Successor to "Bay Trail", 14 nanometer
  - Primarily targeted at Chromebooks (20)
  - Cherry Trail will be used in Tablets

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Economics Of Silicon Ending

- Intel 4004, 10,000 nanometers, now 14 nm
- Costs modeled by "Moore's Law"
  - In 1982, on the 80386 transistors = $1/thousand
  - In 2002 = $1/2.6M, 2012 = $1/20M
  - In 2014, for the first time costs will rise $1/19M
  - Continue shrinking transistors until around 2020
- Latest trick, now building upright transistors, wrapped on three sides
- New material needed, perhaps carbon, but not graphene, maybe molybdenum sulphide or neuromorphic computing = biology

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Optical Connection Cuts Cost Of Connecting Fiber Cable In Half

- While improving performance…
  - Intel MXC
  - Fujitsu-Furukawa connector – 25 Gbps
- Optical LAN (OLAN) – Passive optical LAN-POL
  - Optical Line Terminal-OLT-32 users to 4 port switches
  - Optical Network Terminal-ONT
  - GPON-Gigabit Passive Optical Network

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“Standards”

- 4K vs. UHD, compressed video, audio

Format	Resolution	Display aspect ratio	Pixels
UHD Ultra high def TV	3840 × 2160	1.78:1 (16:9)	8,294,400
UHD Ultra wide TV	5120 × 2160	2.37:1 (21:9)	11,059,200
WHXGA	5120 × 3200	1.60:1 (16:10)	16,384,000
DCI 4K (native res.)~17:9	4096 × 2160	1.90:1(256:135)	8,847,360
DCI 4K (CinemaScope cropped)	4096 × 1716	2.39:1	7,020,544
DCI 4K (flat cropped)	3996 × 2160	1.85:1	8,631,360

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4K TV Prices Falling And Competition High

- Vizio will shipped 4K TVs below $1,000 in June
- Their top end offering is a 70” at $2,499
- Getting 4K content to device is biggest current challenge
- Netflix now delivering 4K support – 16MBps stream, suggest 20

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Apple Launched 27-Inch 5K Display

- Apple launched the display that boasts a 5120 x 2880 resolution, which would be significantly higher than the 2560 x 1440 resolution found on the current Apple Thunderbolt Display.

Source: http://www.macrumors.com/2014/09/12/report-apple-27-inch-5k-display-this-year/

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4K Laptop Displays

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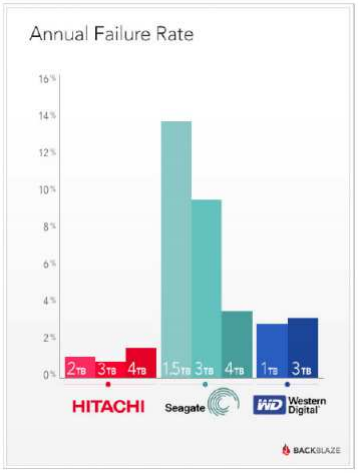
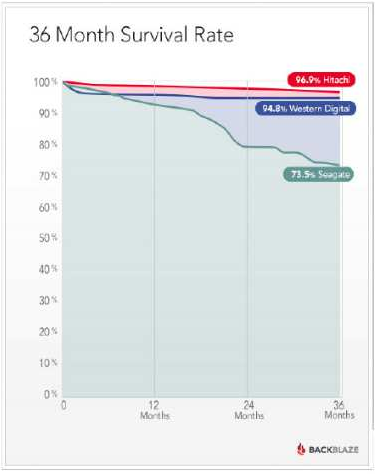
4TB Drive Failures At Backblaze





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New USB Standard The Type-C

- USB is the ubiquitous way to connect mobile devices to power sources and to other devices. There are currently seven different types of USB connectors already in use: USB 2.0 A, B, mini B and micro B; and USB 3.0 A, B and micro B. There's about to be one more: the USB Type-C.
- With the right equipment on both ends, Type-C will be able to move up to 10Gbps of data back and forth, putting it on a par with Apple Thunderbolt technology, and represents a big step up from USB 2.0's peak of 480Mbps and the 3.0 spec of 4.8Gbps.

It's easy to see the difference between the older USB port (right) and the newer symmetrical Type-C port (left).

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http://www.pcadvisor.co.uk/test-centre/network-wifi/3417453/6-best-80211ac-wireless-routers-of-2014-uk/

802.11AC IS HERE

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Table 1 - 802.11ac Major Features Enhancements

802.11ac Features	Customer Benefits
Wider channels	Higher data rates – up to 1.3Gbps per radio
Higher encoding density	Higher bit density per packet
Increased number of spatial streams	Higher data rates per AP/client link
Beamforming	Greater wireless AP/client link reliability
Multi-user MIMO	Greater AP/client capacity and efficient use of spectrum

Table 2 - 802.11ac Data Rates by Channel Width

	Channel Width			
# Spatial Streams	20 MHz	40 MHz	80 MHz	160 MHz
1	86 Mbps	200 Mbps	433 Mbps	866 Mbps
2	173 Mbps	400 Mbps	866 Mbps	1.73 Gbps
3	288.9 Mbps	600 Mbps	1.3 Gbps	2.34 Gbps
4	346.7 Mbps	800 Mbps	1.73 Gbps	3.46 Gbps

Source:
http://www.merunetworks.com/products/technology/80211ac/

Table 3 - Available 802.11ac Channels

	Including DFS*		Excluding DFS	
Channel size	US	EUROPE	US	EUROPE
40 MHz	8	9	4	2
80 MHz	4	5	2	1
160 MHz	1	2	--	---

* DFS = Dynamic Frequency Selection – for avoiding interference with Weather Radar

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802.11ac vs. 802.11ad

- Working Group TGac specifies IEEE 802.11ac as an extension of 802.11n, providing a single-link minimum of 500-Mb/s and 1-Gbit/s overall in the 5-GHz band.
- Meanwhile, Working Group TGad and the Wireless Gigabit Alliance (WiGig) jointly proposed IEEE 802.11ad, which is targeting short-range speeds to 7 Gb/s in approximately 2 GHz of spectrum at 60 GHz.
- It was officially accepted as a standard at the end of 2012…

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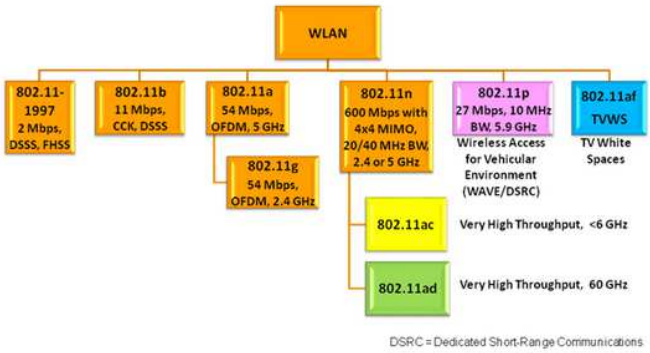
802.11ac vs. 802.11ad



Source: http://mwrf.com/test-amp-measurement/what-s-difference-between-ieee-80211ac-and-80211ad

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Linksys WRT1900AC Home Router

- Up to 1900 Mbps over wireless (ideal conditions)
- Uses new 802.11ac spec, which takes advantage of both 5 GHz and 2.4 GHz radio spectrum
- Runs open source DD-WRT firmware for extended capabilities (SSL VPN, etc.)
- Linksys now owned by Belkin, not Cisco
- $299 retail

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CradlePoint ARC MBR1400

- Designed for branch offices and distributed enterprises
- Supports wired Internet, with cellular failover
- 802.11abgn, 3x3 MIMO (2.4 or 5 GHz)
- $379 and up depending on options
- More info at www.cradlepoint.com

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CradlePoint AER 2100
Advanced Edge Router

- 802.11ac
- Edge Router, manages wired/wireless internet connections and security
- Analytical tools from CradlePoint and 3rd parties
- Auto routing of traffic to multiple 4G WAN carriers
- Built for PCI compliance
- Multi-carrier support
- Multiple VPN options
- SPI firewall
- MSRP $1,099 and up

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Software

- Browsers
- Microsoft Office licensing
- Office Online, formerly Web Apps
- Windows 8.1 and Office 2013 update
- Windows 10 and Office 2015 debut
- Accounting software
- Document management
- Accounting Firm applications

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Browser Update

- HTML5 compatibility issues subsiding – but need to use more current browser versions.
- Great add-in for those of you using Chrome or Firefox https://disconnect.me/
- Try https://adblockplus.org/en/internet-explorer for IE

Usage share of desktop browsers for June 2014

Source	Chrome	Internet Explorer	Firefox	Safari	Opera	Other
StatCounter	48.7%	23.0%	19.6%	4.9%	1.4%	2.3%
W3Counter	38.0%	19.0%	16.8%	16.0%	3.2%	6.0%
Wikimedia	45.9%	11.7%	16.9%	7.1%	1.6%	16.8%
NetApplications	19.3%	58.3%	15.5%	5.2%	1.0%	0.4%

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Microsoft Licensing

- Audits are becoming common, fines large
- Self-audit letters
- Tool to show compliance
- Open license MS Office required on RDS
- Cure
  - Open Licensing with Software Assurance
  - Office 365 Mid-Size Business, ProPlus, E3 or E4
    - Home Premium at 3.5M users – professionals can't use

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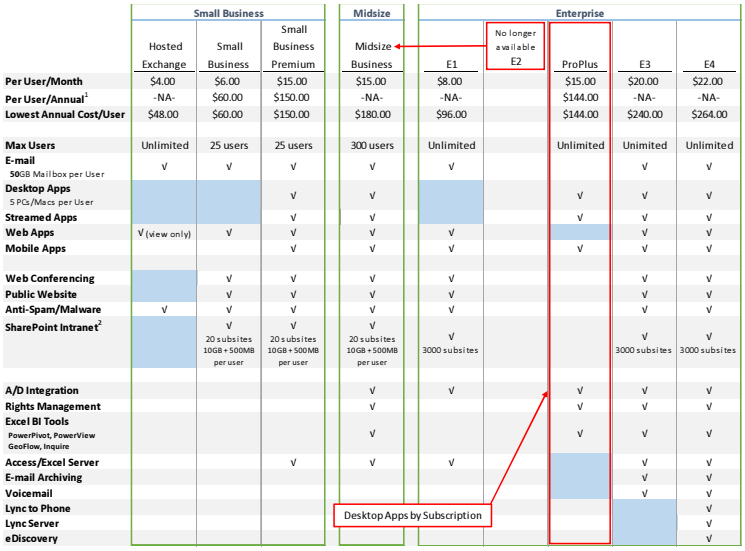
Office 365 Pricing And Feature Plans



	Small Business			Midsize	Enterprise				
	Hosted Exchange	Small Business	Small Business Premium	Midsize Business	E1	No longer available E2	ProPlus	E3	E4
Per User/Month	$4.00	$6.00	$15.00	$15.00	$8.00		$15.00	$20.00	$22.00
Per User/Annual[1]	-NA-	$60.00	$150.00	-NA-	-NA-		$144.00	-NA-	-NA-
Lowest Annual Cost/User	$48.00	$60.00	$150.00	$180.00	$96.00		$144.00	$240.00	$264.00
Max Users	Unlimited	25 users	25 users	300 users	Unlimited		Unlimited	Unimited	Unlimited
E-mail 50GB Mailbox per User	√	√	√	√	√			√	√
Desktop Apps 5 PCs/Macs per User			√	√			√	√	√
Streamed Apps			√	√			√	√	√
Web Apps	√ (view only)	√	√	√	√			√	√
Mobile Apps			√	√	√		√	√	√
Web Conferencing		√	√	√	√			√	√
Public Website		√	√	√	√			√	√
Anti-Spam/Malware	√	√	√	√	√			√	√
SharePoint Intranet[2]		√ 20 subsites 10GB + 500MB per user	√ 20 subsites 10GB + 500MB per user	√ 20 subsites 10GB + 500MB per user	√ 3000 subsites			√ 3000 subsites	√ 3000 subsites
A/D Integration				√	√		√	√	√
Rights Management				√			√	√	√
Excel BI Tools PowerPivot, PowerView GeoFlow, Inquire				√			√	√	√
Access/Excel Server			√	√	√			√	√
E-mail Archiving								√	√
Voicemail								√	√
Lync to Phone									√
Lync Server									√
eDiscovery									√

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Microsoft Office Online

- Stripped-down versions of Word, Excel, PowerPoint and OneNote
- Microsoft added real-time co-editing
- Microsoft has pledged to bring Android within the Office Online support fold

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Delve For Office 365 Released

- Microsoft has released a tool called "Delve," which will do for Office 365 users what Cortana will do for Windows Phone users: manage their lives.
- There is no additional fee for Delve. Included in Office 365 subscription plans, which range from $5/user/month to $22/user/month, a Microsoft spokesperson tells us.
- Microsoft Delve, previously code-named "Oslo," searches your emails, meetings, contacts, social networks, and corporate documents stored in Office 365, then uses "machine learning" artificial intelligence to show you the stuff you need to see.

Source: http://www.businessinsider.com/microsoft-finally-rolls-out-delve-2014-9

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Windows 8

- 200M sold, probably 165-180M in use, up from 59M in May 2013
- 468M on Windows 7
- 120M on Windows Vista
- May 2013 – 1.4 billion Windows PCs in use

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Microsoft Skips Windows 9 – hoping to distance itself from the mistakes of Windows 8…

WINDOWS 10 DUE IN 2015

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What Can We Expect to See…

- ***A new Start menu***: This change from Windows 8 is an important concession to Windows XP and Windows 7 users.
- In the *new* Start menu, the left half looks much like Windows 7's. But the right half is a composite of scaled-down tiles. Both sides are customizable; you can click-and-drag or pin/unpin both menu items and tiles till the cows come home.
- Drag a menu entry from the left side to the right side, and it instantly turns into a tile. Unpin all tiles, and you end up with a Start menu that looks and works much like Win7's — at least to a first approximation.
- This is at least a first brush. The final menu structure was not set as of the October 1 announcement.

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One Windows For All?

- ***Universal apps*:** An approach where Windows 8 apps, Windows Store apps, Modern apps (think Metro), and so forth, are will now be called "Universal" apps.
- Universal apps will now run on the standard desktop in their own floating, resizable windows much like Stardock's ModernMix.
- Microsoft envisions, developers can write a single app that runs inside Windows on the Windows 10 desktop and on Windows phones and tablets — or on watches, refrigerators, servers, drones, etc.
- In reality, a Universal app will need slight modifications for different platforms, but the API calls should be consistent (if not identical), no matter where the app finds itself.

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Smart Platforms

- ***Platform smarts*:** Windows 10 will determine whether you have a keyboard and a mouse. If Windows 10 finds a keyboard, it takes you directly to the desktop. (It's not clear if the Start screen then disappears or not.)
- If Windows 10 detects that a device has no attached keyboard — or if the keyboard is detached (like a convertible tablet PC) — Windows 10 asks permission to take you to the Metro Start menu.
- Microsoft calls this "Continuum." Windows 8.1 has some of this capability, but Microsoft still has some ways to go.

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The Return Of An Old Friend

- ***Multiple desktops*:** With Windows 10, you can run whatever you like on one desktop, then flip over to another desktop and run something different.
  - You could add virtual desktops to Windows as far back as XP with third-party apps
- That's a great feature for users who multi-task or fill multiple roles or multiple projects.

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On-screen Application Snapping

- Up to four programs can be snapped into the corners of the screen.
- Universal defined apps can be snapped just like standard programs. There's also a new Task View icon that makes it easy to see and switch among running programs — or different desktops.
- Windows 10 will help you see why we began talking large (30") monitors last year, though the OS still supports multiple monitors as far as we can tell.

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There Is Still A Lot Of Work To Do

- Cortana, the Windows phone assistant, is currently missing in the initial Windows 10 Preview but is expected to be in the final version.
- Internet Explorer 12 isn't in Preview either, and there's no Notification Center. Expect the final Windows 10 to have a Notification Center that's much like the one on your phone.
- If Microsoft plans to run in parallel with Apples platform update, tools like Notification and Messaging across the platform will be a must.
- There is more speculation, but we elected not to gamble on it. The things we have mentioned are the big things that enterprise users wanted.
- You can download the preview version – but we suggest you do NOT put into production. Final release will ship sometime later in 2015. That means the end of first or second quarter.

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Office 2016, Too

- Target release is early Spring 2015 (currently in beta; however, that date may move)
- Big focus is mobility apps and compatibility with other platforms likes Mac OS, Chrome, Linux, iOS, and Android – a huge culture change for Microsoft!
- Universally Touch Friendly
- Any file from any device
- Edit, Move, and resize photographs
- Feature list

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Apple Yosemite – Now Available

(Looks Best on Retina Displays)

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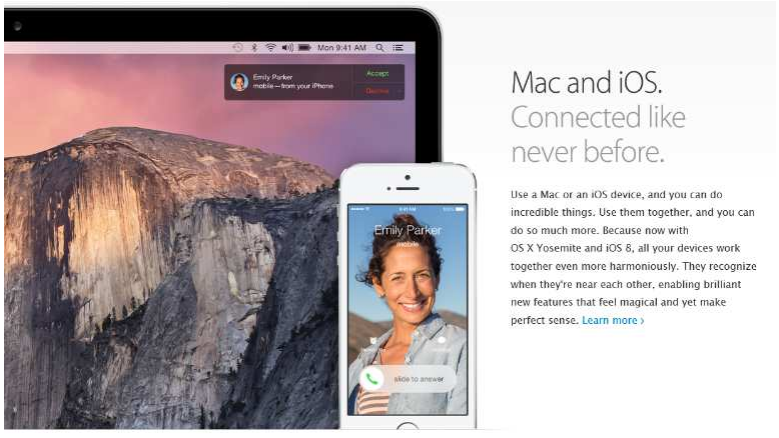
Apple Yosemite


Mon 9:41 AM
Emily Parker
mobile — from your iPhone
Accept
Decline
Emily Parker
slide to answer
Mac and iOS.
Connected like never before.
Use a Mac or an iOS device, and you can do incredible things. Use them together, and you can do so much more. Because now with OS X Yosemite and iOS 8, all your devices work together even more harmoniously. They recognize when they're near each other, enabling brilliant new features that feel magical and yet make perfect sense. Learn more ›

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Most Important Features In iOS 8

1. Battery usage indicator

- It's probably the most common complaint about the iPhone: The battery drains too fast. This is, of course, dependent on exactly what you do with it, but how do users know whether to prioritize dimming the screen, quitting a particular app or turning off Background App Refresh?
- In iOS 8, they'll finally get some guidance. The iPhone's settings will offer a way to check exactly which apps and functions are draining your battery. With that guidance, users will be able to selectively change their settings or uninstall the right apps to maximize their battery.
- Developers will certainly find the feature useful as well, as it should help make their apps more efficient. In short, this could be the most welcome new feature in iOS 8.

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Most Important Features In iOS 8

2. New keyboard(s)

- There's nothing more fundamental to the iPhone than its onscreen keyboard — and in iOS 8, it gets an upgrade via predictive typing, which suggests several options for the next word as you type. This is a feature that's been on Android for a while, although Apple says its implementation is superior — since it learns what you're likely to say to different friends and colleagues.
- At the same time, Apple is letting developers offer their own keyboards. You may have tried Swype for Android, for example, which uses an algorithm that lets you swipe around a keyboard rather than tap; the company has already said it will make its keyboard available for iOS.

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Most Important Features in iOS 8

3. Continuity

- Apple took the idea of collaboration through the Cloud to a new level with a new feature called Handoff, part of its "Continuity" concept.
- If you have an iPhone and a Mac, you'll be able to start a task on one device (say, composing an email) and finish on the other. Since the devices are aware of each other, all you have to do is click one button, and it works on iPad, too.
- Continuity also has a couple of bonuses: First, AirDrop will work between Macs and iOS devices. Second, using your iPhone as a personal hotspot has never been easier. There's no configuration needed — the iPhone will just know when your Mac needs the connection.

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Most Important Features In iOS 8

4. New camera features

The camera is probably every smartphone's No. 1 app. Apple likes to keep its interface relatively simple, but in iOS 8, users will get a couple of more options: a three-second timer and time-lapse capture for video — sort of the opposite of the slow-motion mode introduced in iOS 7. The camera also gets focus and exposure controls.

5. iCloud Photo Library

iCloud currently stores the last 1,000 photos from your iOS devices for free. With iOS 8, users will be able to upgrade to iCloud Photo Library, which will instantly upload all iPhone/iPad photos and videos to iCloud. Users only get 5GB for free, though — storage costs $0.99 a month for 20GB, with tiers all the way up to 1TB. (The Google+ app on iOS, by the way, will back up all your photos to Google's 15GB limit, for free).

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Most Important Features In iOS 8

6. Family Sharing

With iOS 8, Apple is taking the first step toward merging Apple IDs (a long-requested feature) by introducing Family Sharing, which lets different Apple users share all content they've downloaded from iTunes. Up to six people can be designated family members, and it provides a great solution to the problem of kids downloading paid apps on their parents' credit cards: With Family Sharing, the parent gets notified, and then can grant or deny the purchase.

7. Interactive Notifications

- Just need to reply to a message with a single word? Why do you have to launch Messages for that? In iOS 8, you won't have to — just pull down on the banner that appears and you can type your reply immediately.
- Notifications on the lock screen are interactive, too. Swiping an alert to the left will reveal Reply/Dismiss buttons, letting you do things faster without unlocking your phone. And if you're concerned about security implications, you can disable this feature.

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Most Important Features In iOS 8

8. Messages upgrade

- In iOS 8, Apple's built-in messaging app has a lot more to offer. Apple added the ability to send audio and video messages to your friends. With audio, they're effortless: just open the conversation and raise the phone to your ear to begin recording. Users can also let these kinds of messages self-destruct after a certain amount of time — but that's just a memory-management feature, and not, as has been claimed, an attempt to move in on Snapchat's territory. (After all, there's nothing to prevent the other people in the conversation from saving their versions of the video or audio.)
- At the same time, Messages adds a couple of convenient features: You can set Do Not Disturb on specific threads so you're not constantly getting alerts from big group messages. You can also now share your location with contacts you're conversing with, as in the Find My Friends app, viewable through a new "Details" button on threads.

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Most Important Features In iOS 8

9. Widgets

- Here's another upgrade that Android has had a lock on for years: widgets, made possible by iOS 8's "extensibility," which allows apps to share data and functions with other apps.
- Don't get too excited — widgets will reside in the notification center, not the home screen. But their arrival on iOS is a big upgrade, and if Android is any indication, you can expect the floodgates to open for these small, "glanceable" mini-apps when iOS 8 launches in the fall.

10. Lock screen app suggestions

- In iOS 8, users will notice a new icon on the iPhone lock screen that looks like the App Store. Swipe up and you'll see app suggestions based on your location. For example, if you're across the street from Starbucks, you might see the Starbucks app.
- The feature could be a new path to app discoverability (which can be a problem for apps not in the Top 100), but we'll wait to see how this plays out between Apple, vendors, and developers.

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Most Important Features In iOS 8

11. TouchID for apps

- Apple took fingerprint reading mainstream with the TouchID sensor in the iPhone 5S. In iOS 8, it's going to open up that level of convenience to developers, who can let a user unlock any password stored in their keychain by placing their finger on the reader. That could potentially be even more convenient than Lastpass app logins on Android.

12. iCloud Drive

- If you've ever tried to save, say, a PDF from an email on your iPhone, you may have been frustrated by the lack of a native file system for iOS. Soon iCloud Drive will address that problem, while at the same time offering a Cloud-storage service similar to Dropbox, Box or Google Drive. It's compatible with Windows, too — but not Android.

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Most Important Features In iOS 8

13. Health

- The new Health app is straightforward: It provides a central place for all the health and fitness information you're storing on the iPhone.
- Many apps, such as Nike+ and Fitbit, do this individually, but now those apps will be able to integrate into one app — presuming developers take advantage of Apple's HealthKit platform.
- Apple is also partnering with healthcare providers to help bring the iPhone health data to the doctors and care specialists who can really do something with it.
- Health could have a profound effect on preventative medicine, if both developers and care centers support it.

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Most Important Features In iOS 8

14. New Siri features

- Be careful what you say — Siri is always listening in iOS 8. Even if the iPhone is in a dormant state, you can just say "Hey Siri" to wake up the phone and ask something.
- The phone has to be plugged into power for this to work, *indicating Apple probably sees it as a hands-free solution for the car.*
- Siri can also identify songs with built-in Shazam integration. So instead of launching an app, all you'll need to do is hold down your iPhone's home button to find out what music is playing. Think of all the time you'll save at the bar.

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Most Important Features In iOS 8

15. Contacts on apps screen

Apple realized it wasn't making use of all the space on the apps screen that appears when you double-click the home button. Right above the apps running, you'll see a strip of the most recent contacts along the top. It's another welcome convenience.

16. More Spotlight results

Searching on the iPhone in iOS 8 now brings up Wikipedia, App Store and iTunes results for anything you're searching for.

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Most Important Features In iOS 8

17. Full-featured Safari

Safari got a huge upgrade in iOS 7, and although the upgrades in iOS 8 are more incremental (and already exist in other browsers), they're welcome. There's more flexibility in Private browsing, letting you keep regular and private tabs separate. DuckDuckGo — the privacy-preserving alternative to Google — is supported as a search engine, and users will be able to easily request the desktop version of any site.

18. The Weather Channel

In iOS 7, Apple's weather app got its info from Yahoo. Starting in iOS 8, that data comes from the Weather Channel.

Source: http://mashable.com/2014/06/04/ios-8-features/

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Android Kit Kat 4.4 Features

- You don’t need to touch the screen to get things done. When on your home screen or in Google Now, just say “Ok Google” to launch voice search, send a text, get directions or even play a song.
- While listening to music on your device, or while projecting movies to Chromecast, you’ll see beautiful full-screen album and movie art when your device is locked. You can play, pause, or seek to a specific moment.

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Android Kit Kat 4.4 Features

- The book you're reading, the game you're playing, or the movie you're watching — now all of these take center stage with the new immersive mode, which automatically hides everything except what you really want to see. Just swipe the edge of the screen to bring back your status bar and navigation buttons.

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Android Kit Kat 4.4 Features

- Android 4.4 takes system performance to an all-time high by optimizing memory and improving your touchscreen so that it responds faster and more accurately than ever before. This means that you can listen to music while browsing the web, or race down the highway with the latest hit game, all without a hitch.

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Android Kit Kat 4.4 Features

- The new phone app automatically prioritizes your contacts based on the people you talk to the most. You can also search for nearby places and businesses, your contacts, or people in your Google Apps domain.
- Whenever you get a call from a phone number not in your contacts, your phone will look for matches from businesses with a local listing on Google Maps.

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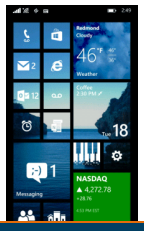
Android Kit Kat 4.4 Features

- There is much more, and individual manufacturers are adding new features, but some may also be limiting features.
- Also, since not all Android devices are created equally – make sure what version you are purchasing and review the feature set before you buy.
- ***Windows Phone users***, check out new features for Windows Phone 8.1



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Accounting Software Notable Changes

- Sage - Payments, Mobile as well as SageOne, Sage 50, 100, 300, X3 and Sage Intelligence
- Microsoft Dynamics - reporting
- CYMA - PR and HR
- Intuit QuickBooks Online – User Interface
- Wave – Payroll and accountant program
- FreshBooks – payment and invoicing methods

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Evolving The Digital Office
Document Management

- CCH Document
- Thomson GoFileRoom
- eFileCabinet
- Doc.It
- ShareFile

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Accounting Firm Developments

- Avalara – SALT and accountant program
- BillQuick – easy entry and billing
- CCH Axcess - Integrations
- Commercial Logic – PowerPM, TrackTime Central, APS – Universal Time Entry
- Office Tools Professional - Integrations
- Thomson CS Suite – ACS, AdvanceFlow CS
- XCM - Scheduling and Due Dates

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Data

- Cloud storage – Dropbox, OneDrive, etc.
- Automatic synchronization into Cloud
- Encrypted in Cloud and local
- Multi-user office considerations
- Cloud risks and benefits

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Procedures

- Internal controls for Cloud
- Minimizing virus infections
- Updating/replacing/disposing machines/ mobile technology

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People

- Training
- Interaction inhibited by technology
- Consider health and interaction concerns earlier in presentation

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Strategic Choices

- Predictive analysis
- Social business marketing
- 3D printing
  - Bio printing
- Digital currency
  - Peer to peer lending
  - Bitcoin
- Emerging Technologies

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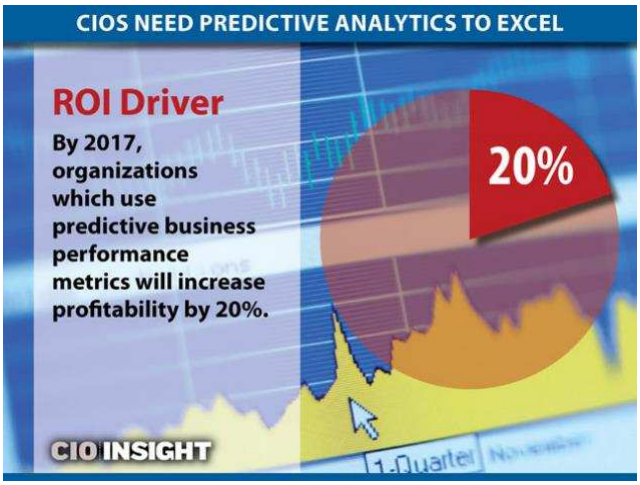
Predictive Analysis

By the way new mobile keyboards use this to guess what you want to type.


CIOS NEED PREDICTIVE ANALYTICS TO EXCEL
ROI Driver
By 2017, organizations which use predictive business performance metrics will increase profitability by 20%.
20%
CIO INSIGHT
1-Quarter

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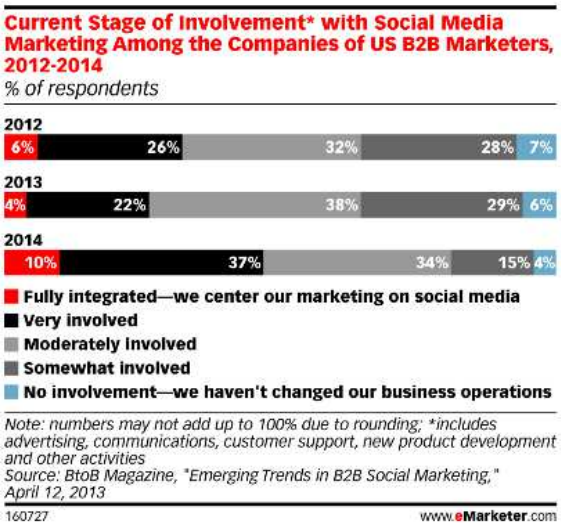
Social Business Marketing Grows



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3D Printing "Need To Know"

- Several types of 3D Printing Technology
  - Fused deposition modeling: melt plastic filament in layers (MakerBot)
  - Stereolithography: laser to cure resin
  - Selective laser sintering (SLS): laser to sinter powdered metal to create a solid structure
- Expect
  - Customization
  - Lower priced printers
  - Disruption in certain industries

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What's Holding 3D Printing Back

- Materials choices
- Fumes from devices in constrained spaces
- Safety from high temperatures
- Expense of SLS dropping as patents expire
- Slow
- Complex design software, not user-friendly
- Patent Issues – example of 3D art replicas

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MINK

- 3D Printed Makeup!
- Yes, you heard me correctly
- Basically the same inks
- You can create virtually any color
- Very Inexpensive < $300 for printer
  - Inks sold separately
- All the rage!

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HP Enters 3D Printing Market with Blended Reality

- HP has introduced Sprout, a virtual and physical desktop environment, along with its first 3D printer called the HP Multi Jet Fusion.
- HP Multi Jet Fusion is designed to simultaneously print on multiple axes and speed up the 3D printing process by as much as tenfold, according to the company.
- HP is combining some of its old school printing techniques to improve the 3D printing process; its new, open-platform 3D printer for business will use HP Thermal Inkjet arrays to apply multiple print materials at once, in liquid form.

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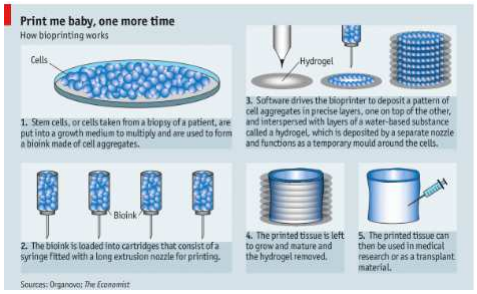
Bioprinting

- Organovo
  - Liver tissue printed in sets of 24 in 30 minutes
  - Started in 2000 with old Lexmark printer
- Modern Meadow – printing meat for humans
- September 2004 – first international workshop – Dr. Boland, Dr. Forgacs
- Dr. Atala of Wake Forest working on scaffolds

Economist, Mar 8, 2014


Print me baby, one more time
How bioprinting works
Cells
Hydrogel
1. Stem cells, or cells taken from a biopsy of a patient, are put into a growth medium to multiply and are used to form a bioink made of cell aggregates.
3. Software drives the bioprinter to deposit a pattern of cell aggregates in precise layers, one on top of the other, and interspersed with layers of a water-based substance called a hydrogel, which is deposited by a separate nozzle and functions as a temporary mould around the cells.
Bioink
2. The bioink is loaded into cartridges that consist of a syringe fitted with a long extrusion nozzle for printing.
4. The printed tissue is left to grow and mature and the hydrogel removed.
5. The printed tissue can then be used in medical research or as a transplant material.
Sources: Organovo; The Economist

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Digital Currency

- Apple Pay may legitimize the Digital Pay market
- Micro Lending
- Bitcoin - www.bitcoin.com
  - Bitcoin exchange Mt. Gox $400M missing
- Coinbase
- www.onlycoin.com
  - One card for all your credit cards

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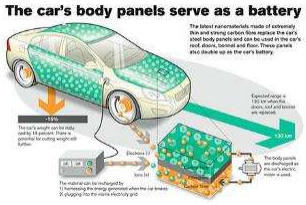
Car Technology

- Ford replaces Microsoft Sync with Blackberry QNS (Linux)
- In five years, nearly 25% of cars will be connected to the Internet
- Pandora and Spotify for music streaming
- V2V – Vehicle to Vehicle wireless
- Augmented reality dashboards
- Apple CarPlay in select cars
- Self-driving cars
- Energy storing body panels



Source: http://www.treehugger.com/cars/volvo-working-on-storing-energy-in-a-cars-body-panels.html

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Samsung Galaxy S5

- Has a 5.1-inch FHD Super AMOLED (1920 by 1080) "adaptive display"
- It runs Android 4.4.2 (KitKat) and has 10 hour battery for Web browsing on LTE or 12 hours of video playback
- An Ultra Power Saving Mode can make a phone on 10 percent battery last another 24 hours
- Heart monitoring
- Waterproof to 30 feet – IP67 certification, full USB 3.0

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Nokia Lumia Icon

- The Icon measures 5.39 x 2.79 x 0.39 inches with a 5” OLED screen, weighs 166 grams— significantly smaller than the 1520 at 6”
- Icon has a 2.2-GHz quad-core Snapdragon 800, plus 2 gigabytes of RAM
- Non-removable case hides 32GB of storage, a 2,420 mAh battery (good for 16 hours of talk time, that can be wirelessly charged)—and no expandable storage

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Toshiba

Encore™ mini WT7-C16 Tablet

List Price: $119.99

TOTAL PRICE: **$119.99**

Free Shipping

Estimated Ship Date from Toshiba is **09/25/2014**.

PRODUCT SUMMARY

This product is prebuilt.

- Windows 8.1 with Bing
  Office 365 Personal 1-year. Activation required within limited time
- Intel® Atom® Processor Z3735G (2MB Cache, Up to 1.83GHz)
- 1GB (on board)
- 16GB eMMC
- Front 0.3MP camera with microphone
- Rear 2.0MP camera
- None
- Micro-USB 2.0
- USB to micro USB cable included
- Micro SD slot (supports SDXC up to 128GB)
- Wi-Fi® Wireless networking (802.11b/g/n) + Bluetooth® v 4.0
- Bluetooth® v4.0
- Winter White
- 1 Year Standard Limited Warranty

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Siri Competitor Indigo

- Indigo is device- and OS- independent meaning it runs on Android and Windows devices - not iOS which already uses Siri
- Looks like it is currently Free do download

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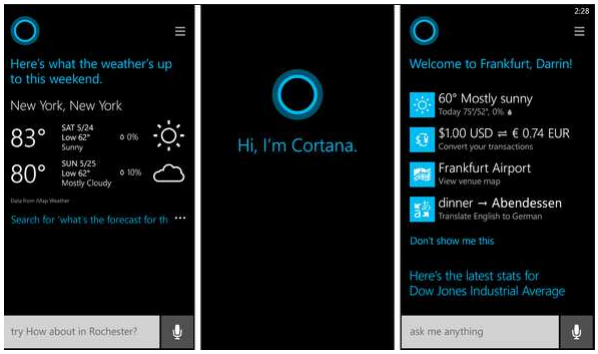
Siri Competitor Microsoft Cortana

- **Cortana** is an intelligent personal assistant on Windows Phone 8.1. Its name comes from Cortana, the artificial intelligence character Microsoft's own *Halo* series, with Jen Taylor, the character's voice actress, returning to voice the personal assistant's US-specific version. Cortana is free to Windows Phone 8.1 users and above. http://en.wikipedia.org/wiki/Microsoft_Cortana



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Google Introduces Siri Competitor

- The *Google Search app for iOS now has a voice icon* just like its Android built-in equivalent, and it works remarkably well. This is not (yet) a personal assistant. Voice Search only searches the web at present, but with the strong likelihood that a user's Gmail and Apps data will become searchable (by the user) as well, Google is within striking distance of Siri's functionality. Yes, it is free too.

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Apple iPhone

- The iPhone 6 is $199 for the 16GB version. That's $100 cheaper than the iPhone 6 Plus, which begins at $299 for the 16GB version. *The iPhone 6 is $299 for 64GB*, and $399 for 128GB.

http://www.businessinsider.com/differences-between-the-iphone-6-and-iphone-6-plus-2014-9#ixzz3D1AfqZPI

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LiveScribe LS3 SmartPen

- Works with iOS devices, special paper in notebooks (can also be printed)
  - 14 hours writing between charges
- Streams writing in real time over Bluetooth 4.0/LE (required to use with devices)
- Uses mics in phone/iPad to record conversation and integrates with the hand written notes
- $149 for Starter Edition
- $199 for Pro Edition

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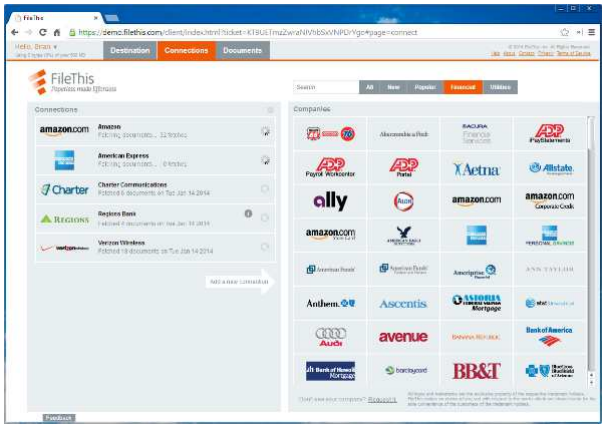
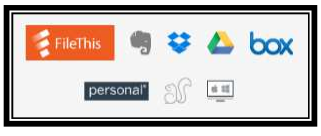
FileThis.com

Automatic Statement Retrieval And Storage

- Online app
- Gets statements online from vendors
- Works with Cloud storage tools





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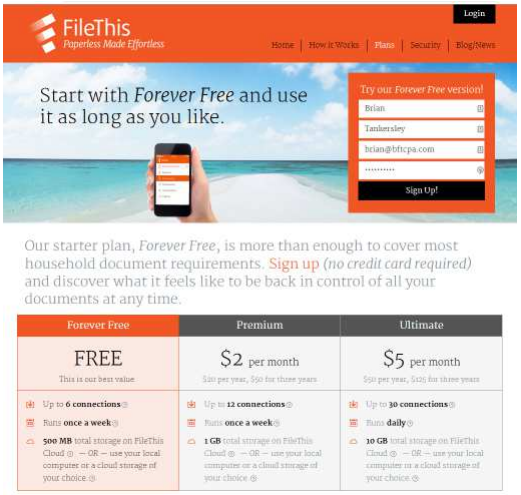
FileThis.com

Automatic Statement Retrieval And Storage

- Free – Up to 6 accts, weekly, 500MB storage
- Premium - $2/mo, up to 12 accts, weekly, 1GB storage
- Ultimate - $5/mo, up to 30 accts, daily, 10GB storage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Paperless Made Effortless
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Home | How it Works | Plans | Security | Blog/News
Start with Forever Free and use it as long as you like.
Try our Forever Free version!
Brian
Tankersley
brian@bfccpa.com
Sign Up!
Our starter plan, Forever Free, is more than enough to cover most household document requirements. Sign up (no credit card required) and discover what it feels like to be back in control of all your documents at any time.
Forever Free
Premium
Ultimate
FREE
This is our best value
$2 per month
$20 per year, $50 for three years
$5 per month
$50 per year, $125 for three years
Up to 6 connections
Runs once a week
500 MB total storage on FileThis Cloud — OR — use your local computer or a cloud storage of your choice
Up to 12 connections
Runs once a week
1 GB total storage on FileThis Cloud — OR — use your local computer or a cloud storage of your choice
Up to 30 connections
Runs daily
10 GB total storage on FileThis Cloud — OR — use your local computer or a cloud storage of your choice

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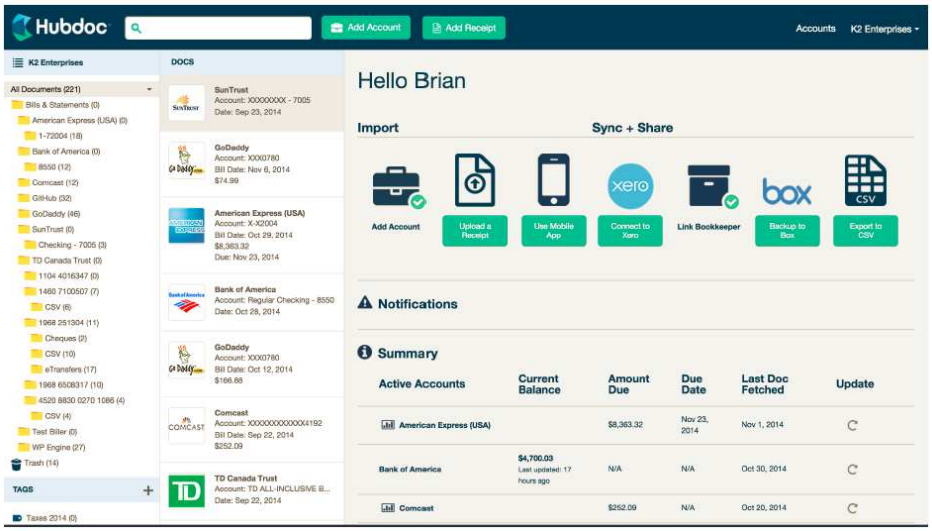
Hubdoc - $20/Client



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NeatConnect®

CLOUD SCANNER + DIGITAL FILING SYSTEM

Introducing a whole new way to get organized! NeatConnect transforms paper into digital files and sends them straight to the cloud - without a computer. From any room in your house, or any spot in the office, NeatConnect's Wi-Fi compatibility and touchscreen interface make scanning your important information fast and easy.

Everything you scan with NeatConnect is instantly available via smartphone, tablet, and online - all thanks to NeatCloud. Multiple users can even share NeatConnect, sending files from their own email accounts or scanning to additional cloud services.

With its speed, easy interface, and array of unique features, NeatConnect helps you save time while taking your organization and productivity to whole new levels.

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HDMI Sticks: Making Dumb TVs Smart

- Wireless sharing of computer screens to TV's or projectors still problematic for most users
- Most devices designed to stream Netflix or YouTube
- Apple can do with AirPlay on Apple TV ($99), can be extended to Windows with apps
- Chrome Browser can use Google ChromeCast ($45), not very versatile (as of 1/2014), but promising
- Miracast standard (Intel WiDi) has been around, but is flaky for some
  - V2 device is NetGear PVT3000 ($65)
- IndieGoGo Campaign for new device: AirTame, $89 + $15 shipping. Ships May 2014, promises Windows, MacOS, Linux support

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Amazon Fire TV

- $99, 7 button controller, game controller $40
- HTML, Android based
- Netflix, HBO GO, SHO Anytime, Pandora, Hulu, ESPN and others

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Lenovo ThinkPad X1 Carbon (3rd Ed)

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Lenovo OneLink Pro Dock

- Proprietary ThinkPad connector with 90-watt adapter for rapid charging
- Driver-free, dual video monitor support
- Power button on dock like system power button
- Four USB 3.0 ports for high-speed HDD devices, two USB 2.0 ports to manage keyboard, mice and monitor connections

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Targus ACP7101 USZ 4K Dock

USB 3.0 universal docking station and power supply device, supports the following connections:

- Integrated gigabit Ethernet and 5.1 audio
- Up to 90W laptop power supply
- Supports dual 2560x1600 displays over DisplayPort or DVI-I
- Compatible with HDCP 2.0
- 1Q 2014, pricing TBD

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Dell Wireless Dock D5000

- Uses 802.11ad (WiGig) for wireless connection with laptop
- Max distance is 10m/32'
- Supported on Win 7, Win 8
- Webcams not fully supported
- Only Latitude 6430u
- $269.99

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Cocoon – Grid-It

http://www.cocooninnovations.com/

- How do you organize your mobile stuff?
- $8-$20 depending on size, etc.
- Amazon and anyplace you purchase computer accessories

5.125" x 10.25"

5" x 7"

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